

Learning to Live • Loving to Learn



SAMUEL TUCKER ELEMENTARY WALKABOUT: Existing Conditions, Findings and Recommendations

June 2017

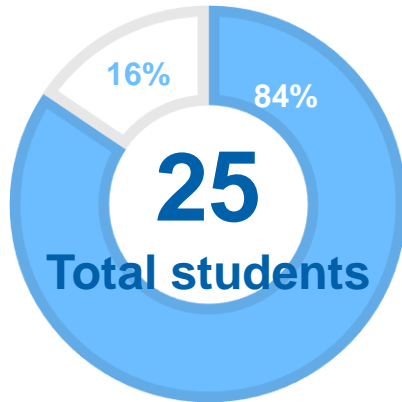
SAMUEL TUCKER ELEMENTARY WALKABOUT DETAILS

- **Date:** March 29, 2017
- **Observation:** Arrival
- **Participants:**
 - Toole Design Group staff
 - City of Alexandria Transportation Planning staff
 - Alexandria Bicycle & Pedestrian Advisory Committee members
 - Samuel Tucker ES Parents
 - Samuel Tucker Administrators
- **Purpose:**
 - Observe school arrival process
 - Evaluate school-zone infrastructure
 - Assess existing Safe Routes to School programming

OVERVIEW OF SAMUEL TUCKER ELEMENTARY SCHOOL

STUDENT DISTANCE FROM SCHOOL

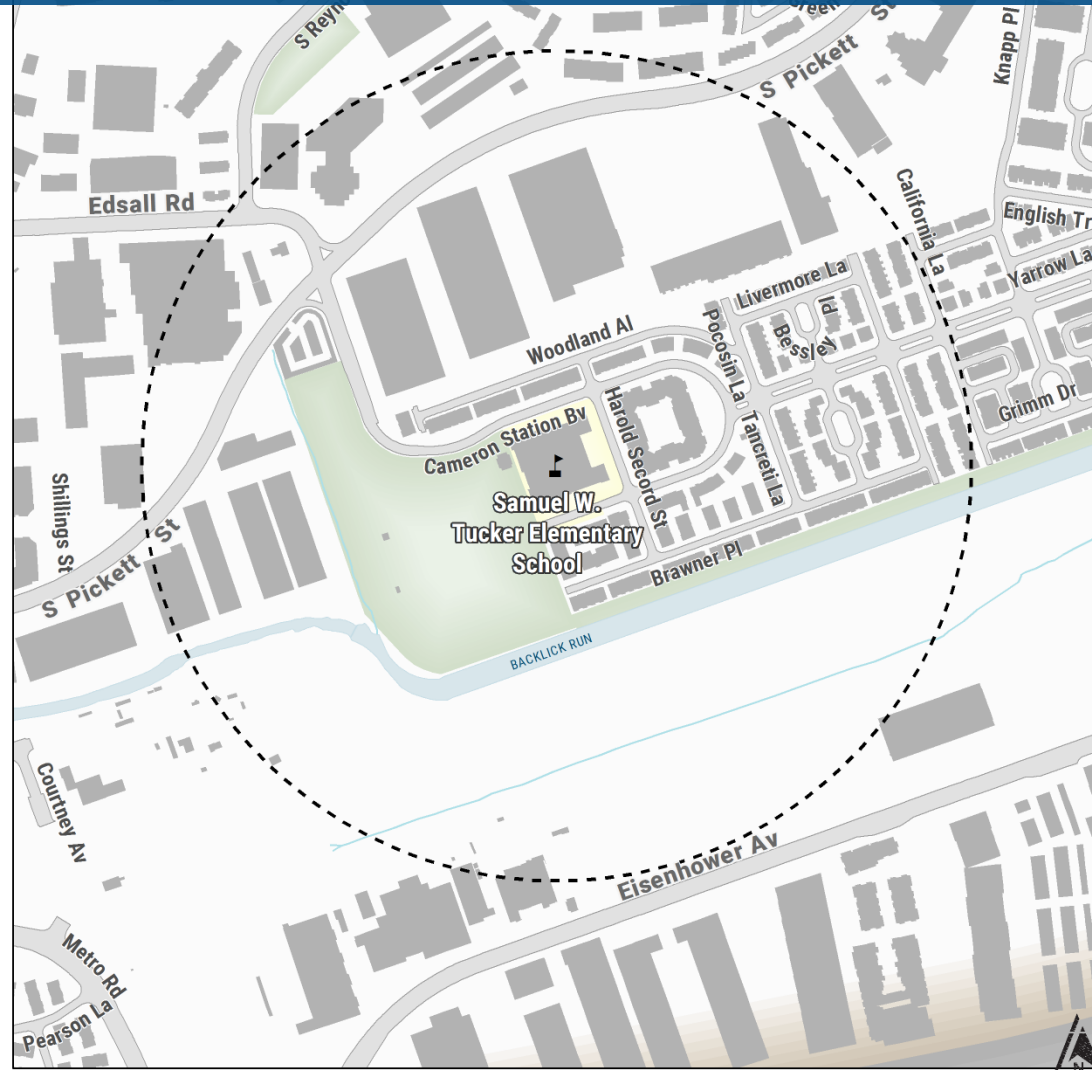
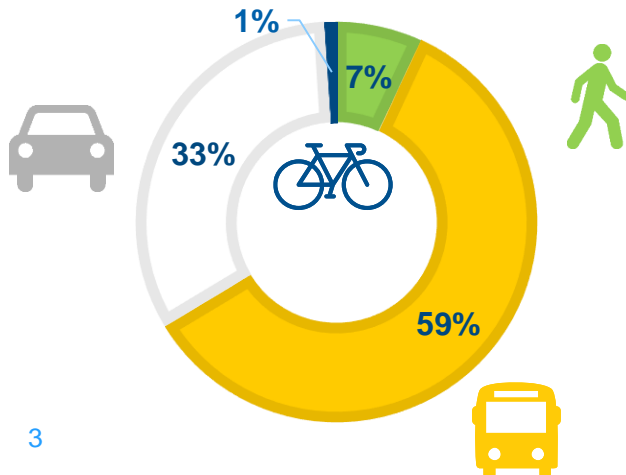
As reported in 2016 Parent Survey.



■ 1 mile ■ >1 mile

Average of "to school" and "from school" modes as reported in 2016 Student Travel Tallies.

STUDENT TRAVEL MODES



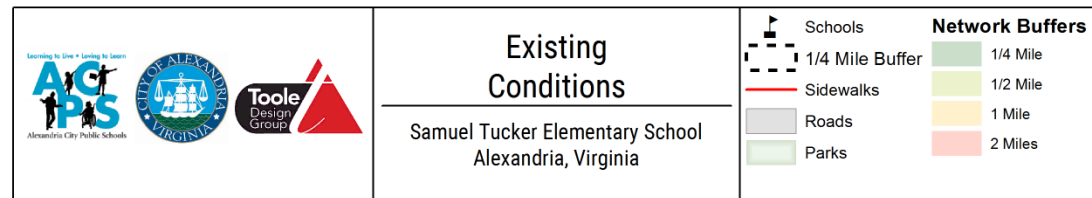
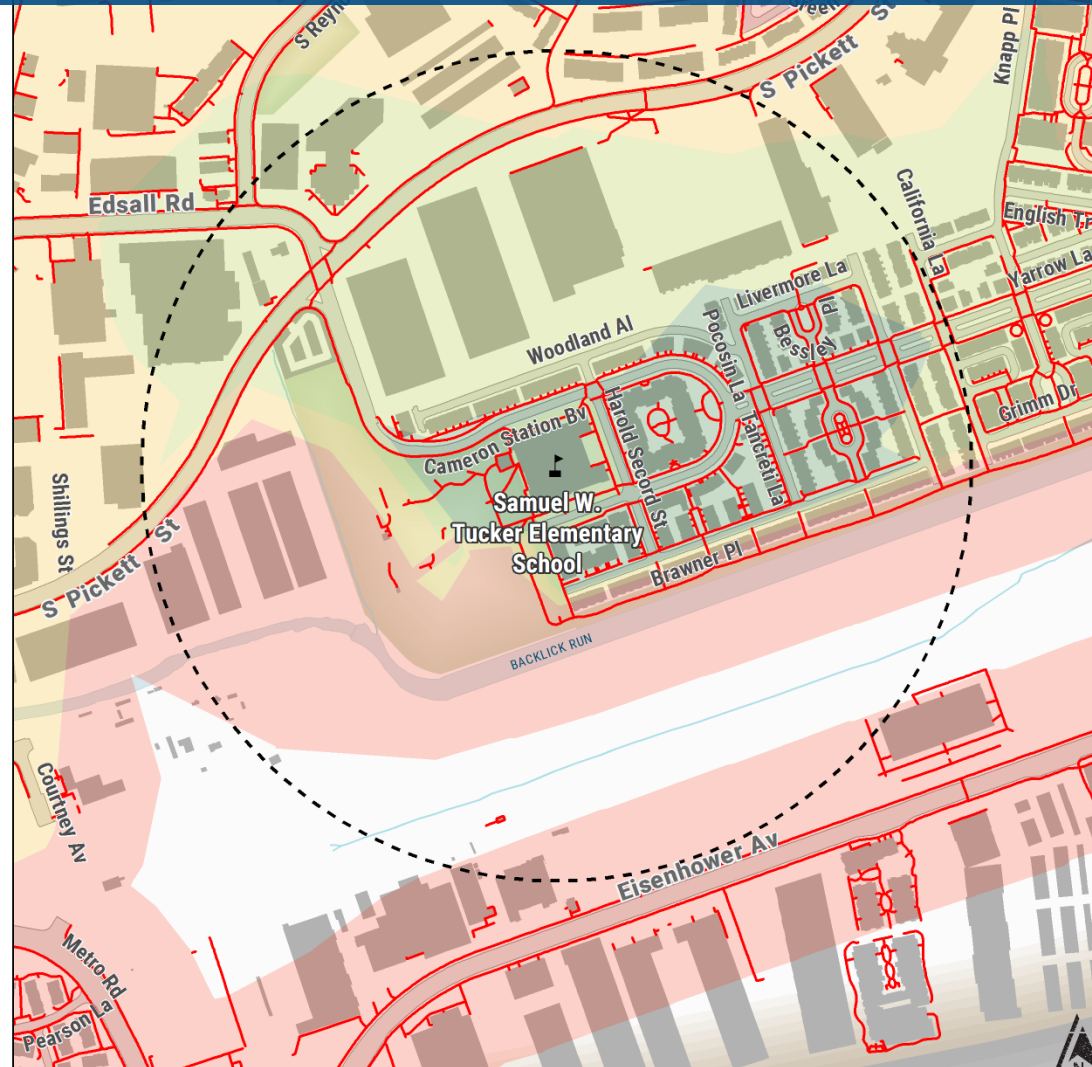
	<p>Overview Map</p> <p>Samuel Tucker Elementary School Alexandria, Virginia</p>	<ul style="list-style-type: none"> Schools 1/4 Mile Buffer Parks Roads
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STUDENT DISTANCE FROM SCHOOL DETAIL

Distance	Percentage of Students
¼ mile	12%
½ mile	16%
1 mile	48%
2 miles	20%
>2 miles	4%

As reported in 2016 Parent Survey

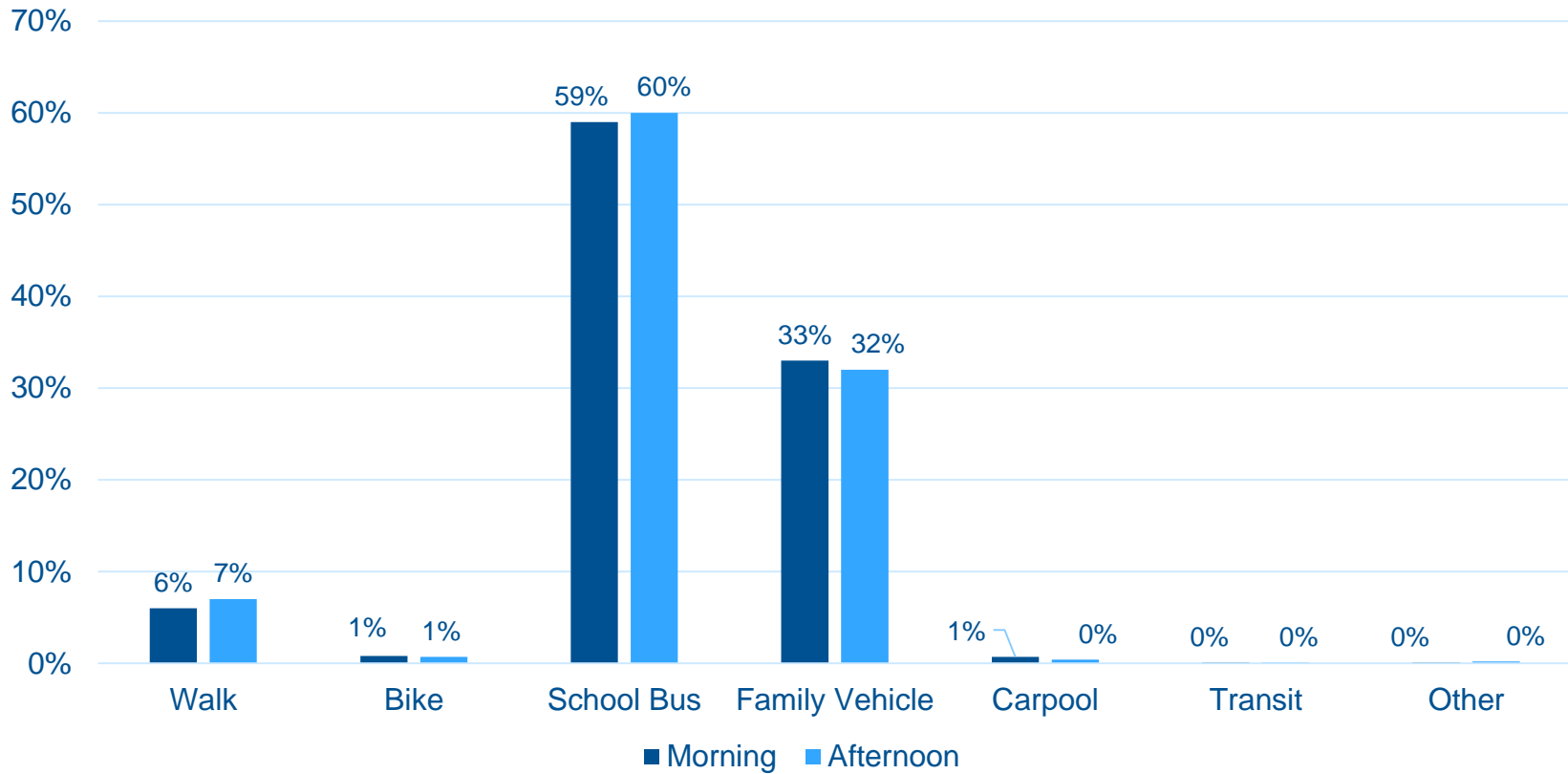
The hollow circle on the map represents the direct distance buffer from the school (1/4 mile).
The colored polygons show the distance along the road network.



EXISTING CONDITIONS

TRAVEL PATTERNS

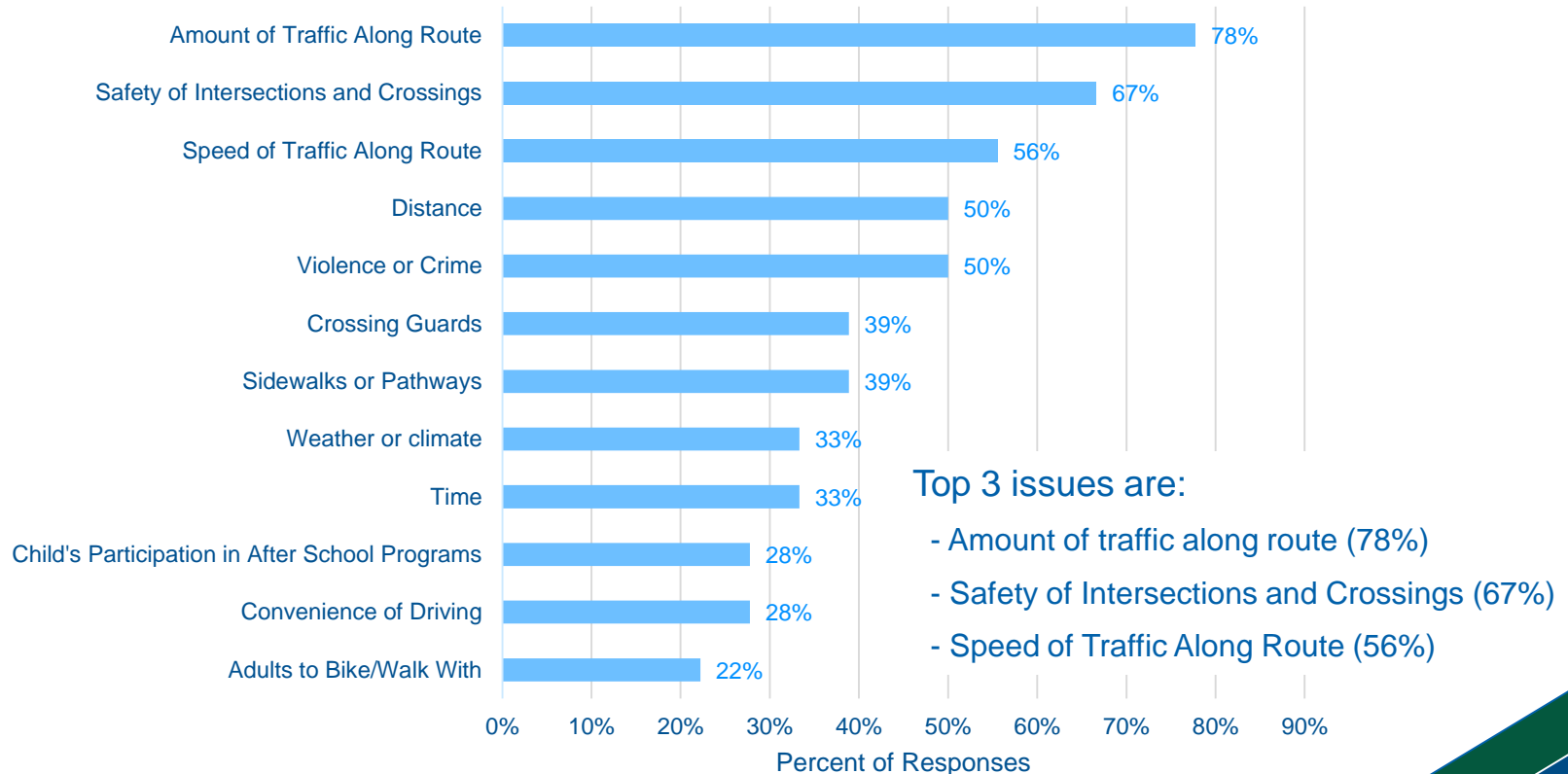
Morning and Afternoon Travel Mode Comparison



Fall 2016 Student Travel Tallies

TRAVEL PATTERNS CONTINUED

Issues reported to affect the decision to not allow a child to walk or bike to/from school by parents of children who do not walk or bike to/from school



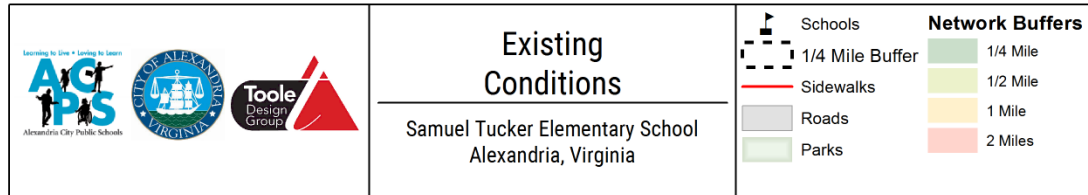
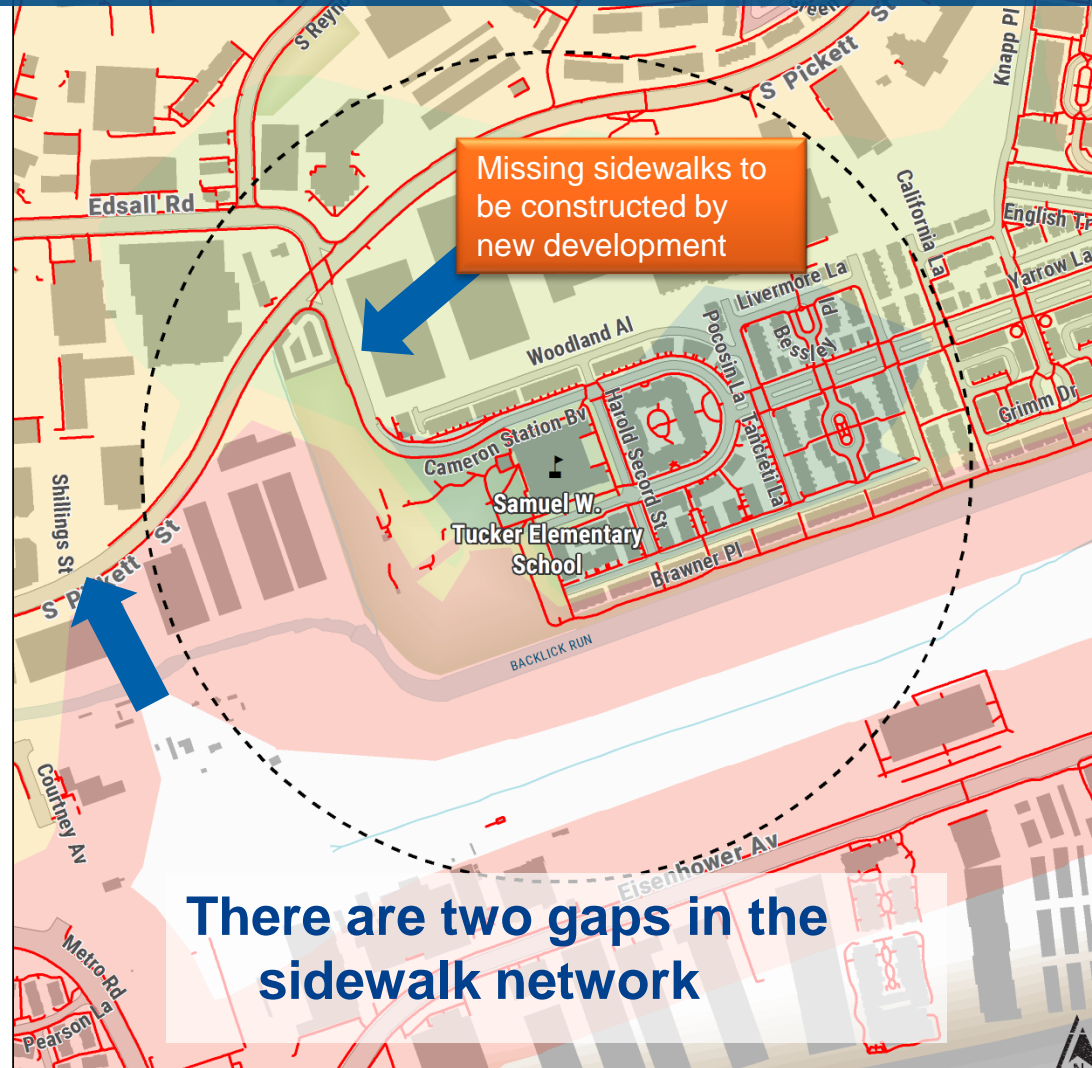
Fall 2016 Parent Survey

PEDESTRIAN NETWORK

Sidewalks – Most sidewalks are at least 4 feet wide, and include a buffer from the roadway

Crosswalks – Most Intersections immediately adjacent to the school have marked crosswalks

Curb ramps – Curb ramps are present at most intersections but many are missing detectable warning surfaces

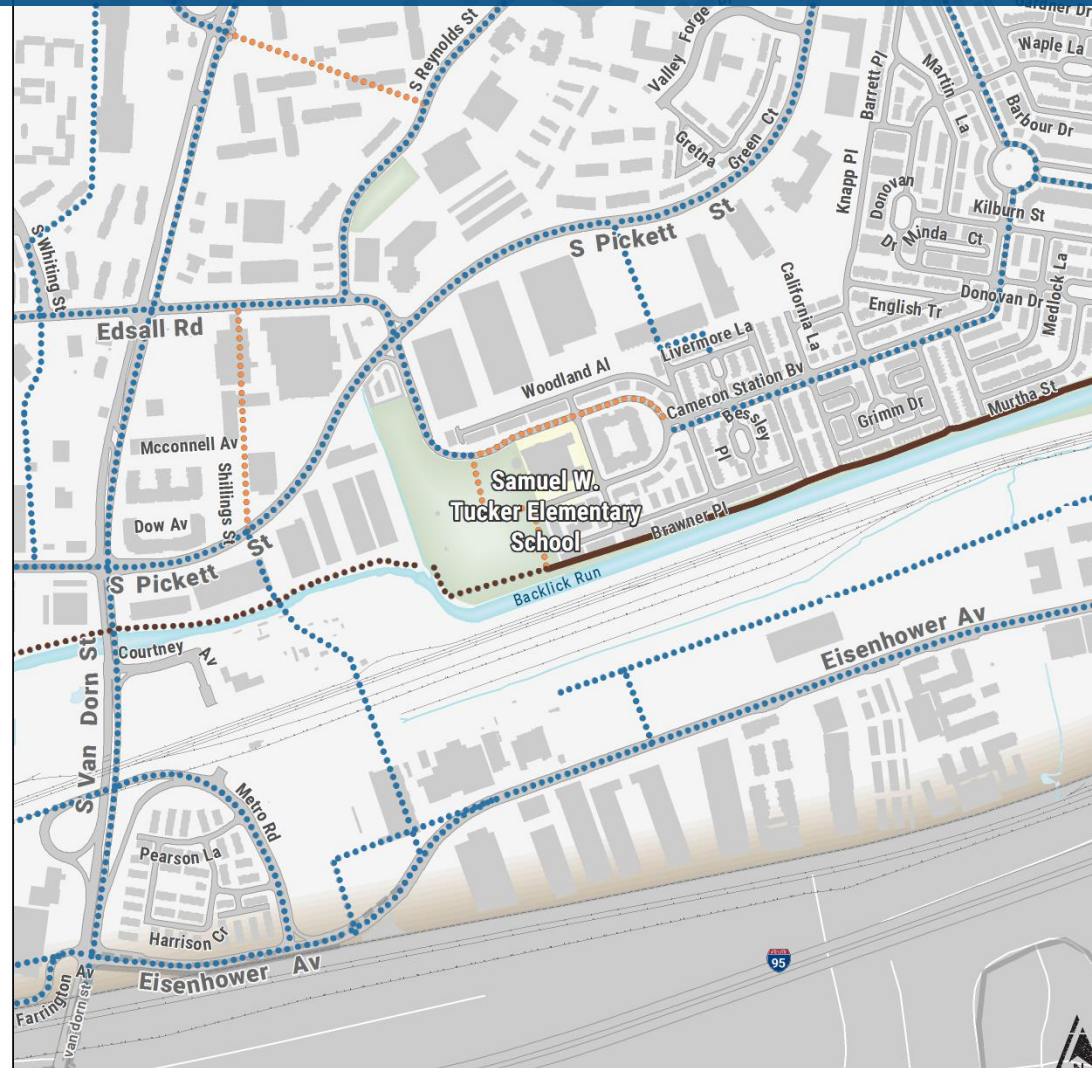













BICYCLING NETWORK

Backlick Run Trail – East-west trail south of Cameron Station. Connects to Ben Brenman Park and Holmes Run Trail. An extension is currently in the design phase.

Future Bike Lanes – Many streets are scheduled for enhanced bicycle facilities such as bike lanes or protected bike lane. These include:

- Eisenhower Ave.
- multimodal bridge
- Cameron Station Blvd.
- S Pickett St.
- Edsall Rd.



<div><div><div>Learning to Live • Living to Learn</div><div><div>Alexandria City Public Schools</div></div></div><div></div><div><div><div>Toole</div><div>Design Group</div></div></div></div>	<div><div><div>Bicycling Infrastructure</div><div>Samuel W. Tucker Elementary School Alexandria, Virginia</div></div></div>	<div><div><div>Existing Facilities</div><div><div><div> Trail</div><div> Advisory Bike Lane; Bike lane</div><div> Climbing Lane</div><div> Shared Lane Markings</div><div> Unpaved Nature Trail</div></div></div><div><div><div>Proposed Facilities</div><div><div> Trail</div><div> Shared Roadway</div><div> Enhanced Bicycle Corridor</div></div></div></div></div></div>
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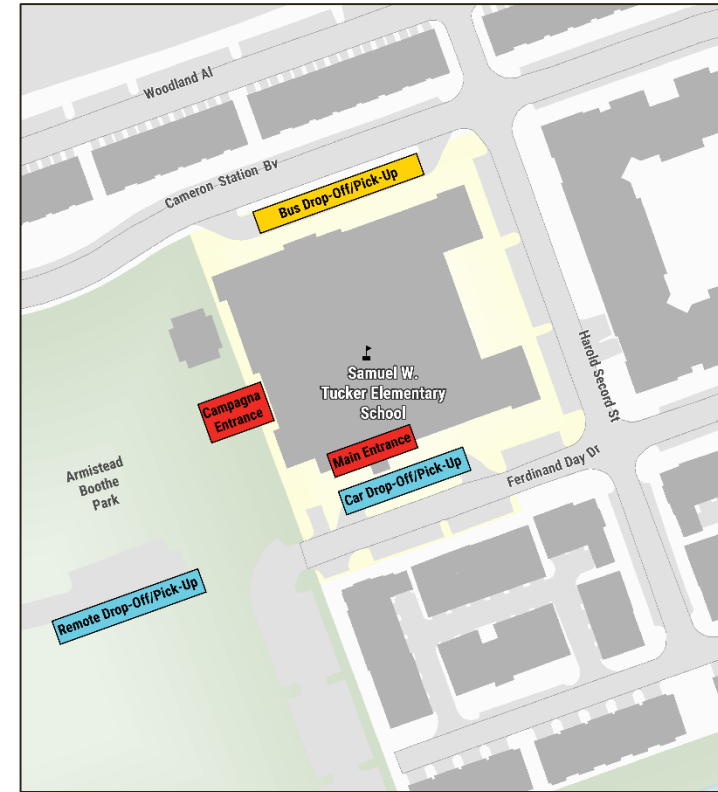
ARRIVAL OBSERVATIONS

Arrival

- Buses drop off at north loop
- Walkers, car riders, and others enter at main entrance on south side of building along Ferdinand Day Dr.
- Campagna (Before-care) – West end of building

Drop-off Zone

- Buses: North side of building along Cameron Station Blvd.
- Cars: South side of building along Ferdinand Day Dr.
 - Alternate Location: Armistead Booth Park Parking Lot



Vehicular Drop-Off



Alternate Drop-Off

ARRIVAL OBSERVATIONS

Armistead Boothe Park Parking Lot

- Both teachers and parents use the parking lot in Armistead Boothe Park to access Samuel Tucker Elementary School. With only one entrance/exit and narrow roadway conditions, pedestrians and vehicles come into close contact as there are no sidewalks and vehicles must make a three point turn to exit.

Ferdinand Day Dr. & Cameron Station Blvd.

- The crossing guard at this location helps to manage traffic along Cameron Station Blvd. while helping students and parents to cross to Ferdinand Day Dr.

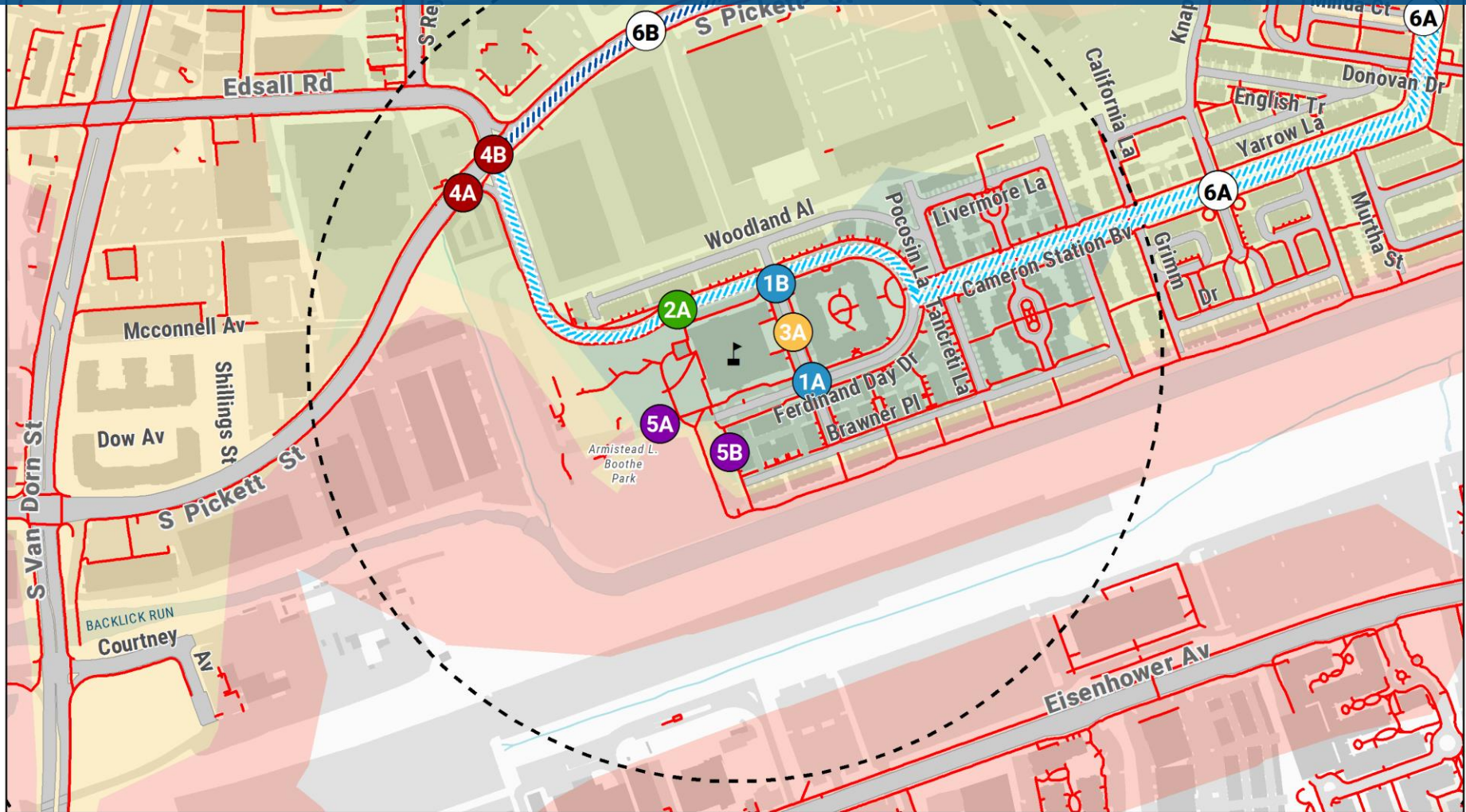
Ferdinand Day Dr. & Harold Second St.

- The crossing guard at this location helps to manage student drop-offs



ENGINEERING RECOMMENDATIONS

INFRASTRUCTURE RECOMMENDATIONS MAP



Infrastructure Recommendations

Samuel Tucker Elementary School
 Alexandria, Virginia



GENERAL RECOMMENDATIONS WITHIN ½ MILE OF SCHOOL

Recommendations

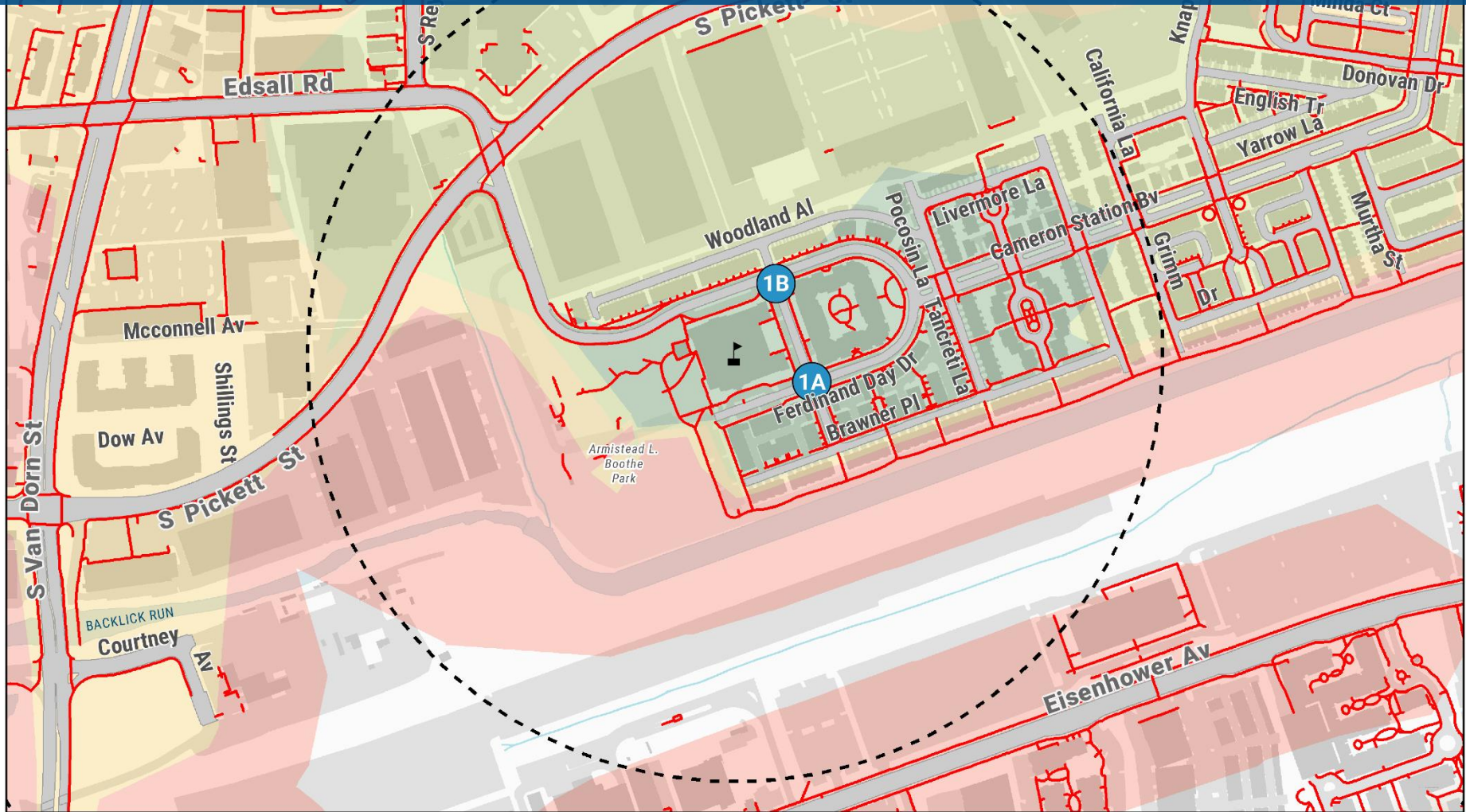
Add additional inverted U bicycle racks near school entrance

Upgrade curb ramps to meet ADA-requirements



Five bike racks are available near the main entrance.

INTERSECTION RECOMMENDATIONS



Infrastructure Recommendations

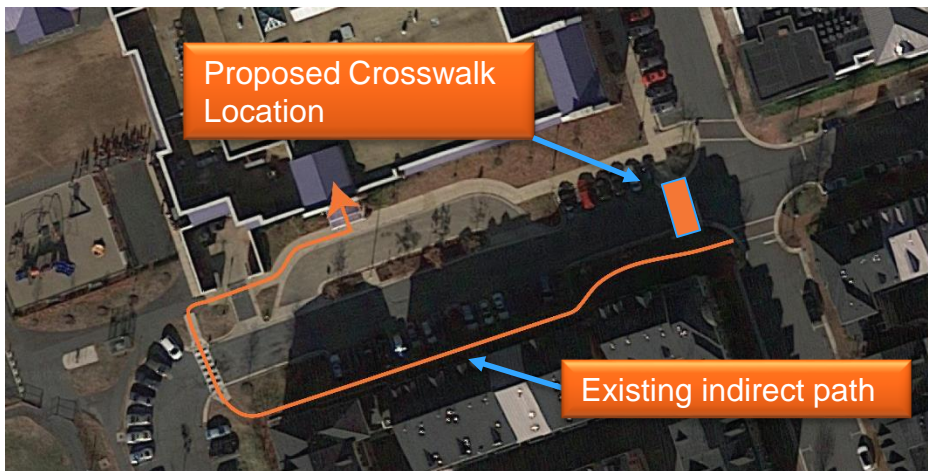
Samuel Tucker Elementary School
 Alexandria, Virginia



INTERSECTION RECOMMENDATIONS

Map ID	Issue	Recommendation	Timeframe*
1A	Crosswalk is currently missing from the west leg of the intersection of Ferdinand Day Dr. and Harold Secord St. Pedestrians approaching school from south of Ferdinand Day Dr. must travel to the marked crossing located one block west to cross Ferdinand Day Dr.	Add ADA-compliant curb ramp and crosswalk across Ferdinand Day Dr. on west leg at intersection with Harold Secord St. Adjust stop bar and stop sign locations accordingly.	Short
1B	Curb ramp is missing on the west end of south leg at the intersection of Cameron Station Blvd. & Harold Secord St. Curb ramp on NW corner lacks detectable warning surface.	Install ADA-compliant curb ramp and add detectable warning surface to remaining curb ramps	Short

* Short = within 1 year, Medium = within 3 years, Long = 3 or more years



INTERSECTION RECOMMENDATIONS

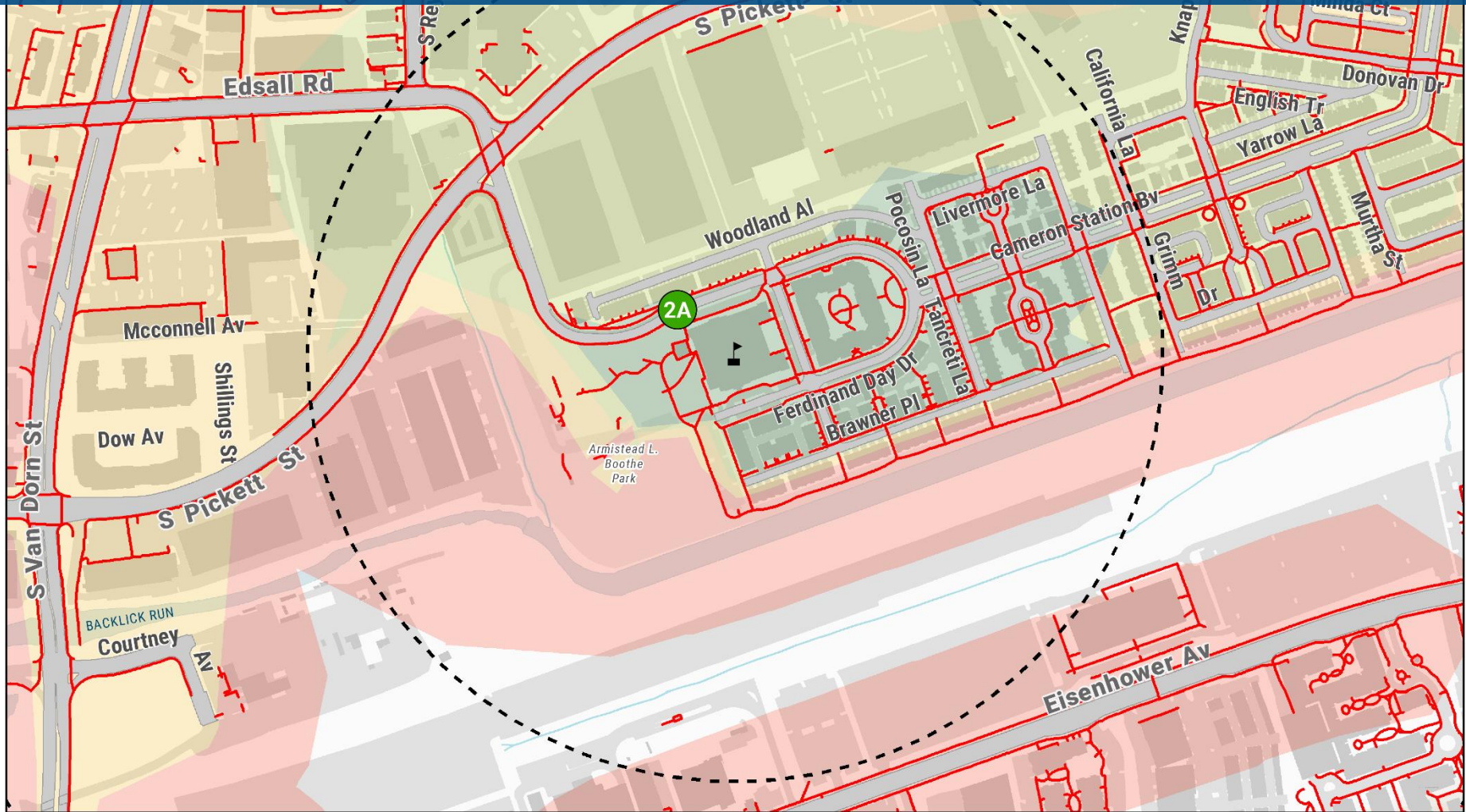


Missing curb ramps at Harold Second St. & Cameron Station Blvd.



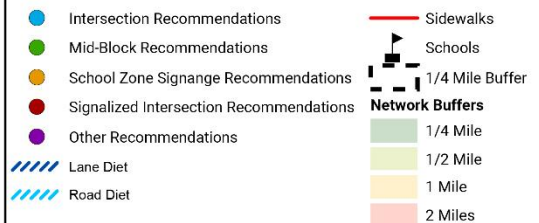
Missing crosswalk and curb ramp at intersection of Ferdinand Day Dr. and Harold Second St.

MID-BLOCK CROSSINGS



Infrastructure Recommendations

Samuel Tucker Elementary School
 Alexandria, Virginia



MID-BLOCK CROSSINGS

Map ID	Issue	Recommendation	Timeframe*
2A	There are no marked crossings between Harold Secord St. and S Pickett St. across Cameron Station Blvd. Students and parents travelling from north of Cameron Station Blvd. who wish to access the school or Campagna program via a marked crosswalk must take an indirect route.	Install high visibility marked crosswalk across Cameron Station Blvd. at existing curb cut on NW corner of school property. Also install curb extension on north side to shorten crossing distance and increase pedestrian visibility.	Medium

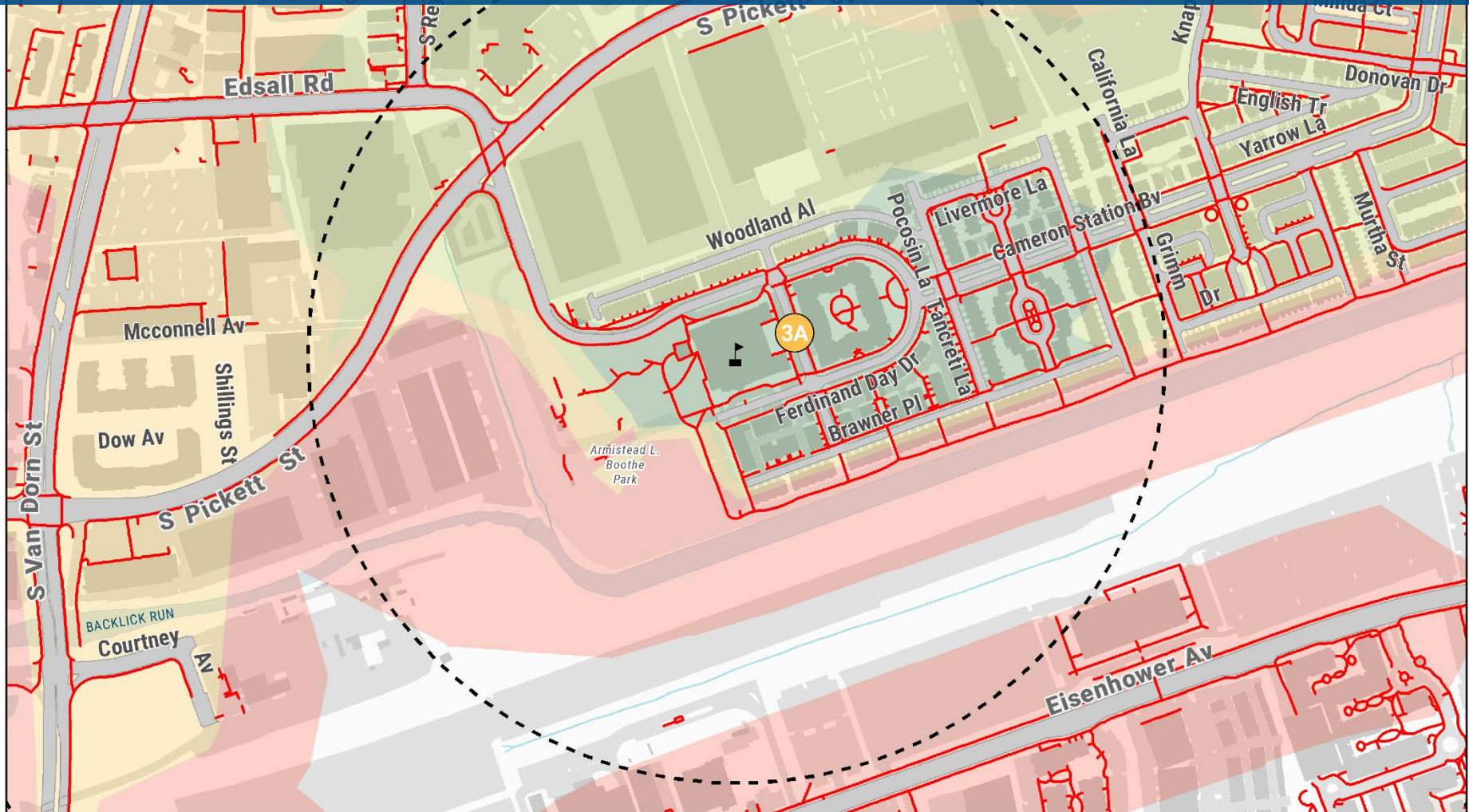
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Left: Curb ramp and future location for crosswalk across Cameron Station Blvd.

SCHOOL ZONE SIGNAGE

Additional Detail on
Following Slide



Infrastructure Recommendations

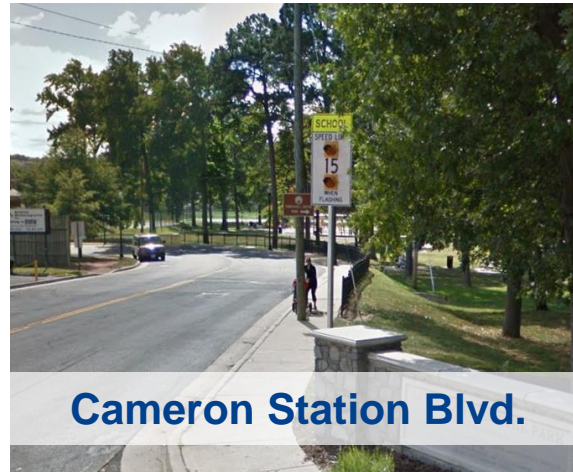
Samuel Tucker Elementary School
Alexandria, Virginia

- Intersection Recommendations
- Mid-Block Recommendations
- School Zone Signage Recommendations
- Signalized Intersection Recommendations
- Other Recommendations
- /// Lane Diet
- /// Road Diet
- Sidewalks
- ▲ Schools
- 1/4 Mile Buffer
- Network Buffers**
 - 1/4 Mile
 - 1/2 Mile
 - 1 Mile
 - 2 Miles

SCHOOL ZONE SIGNAGE

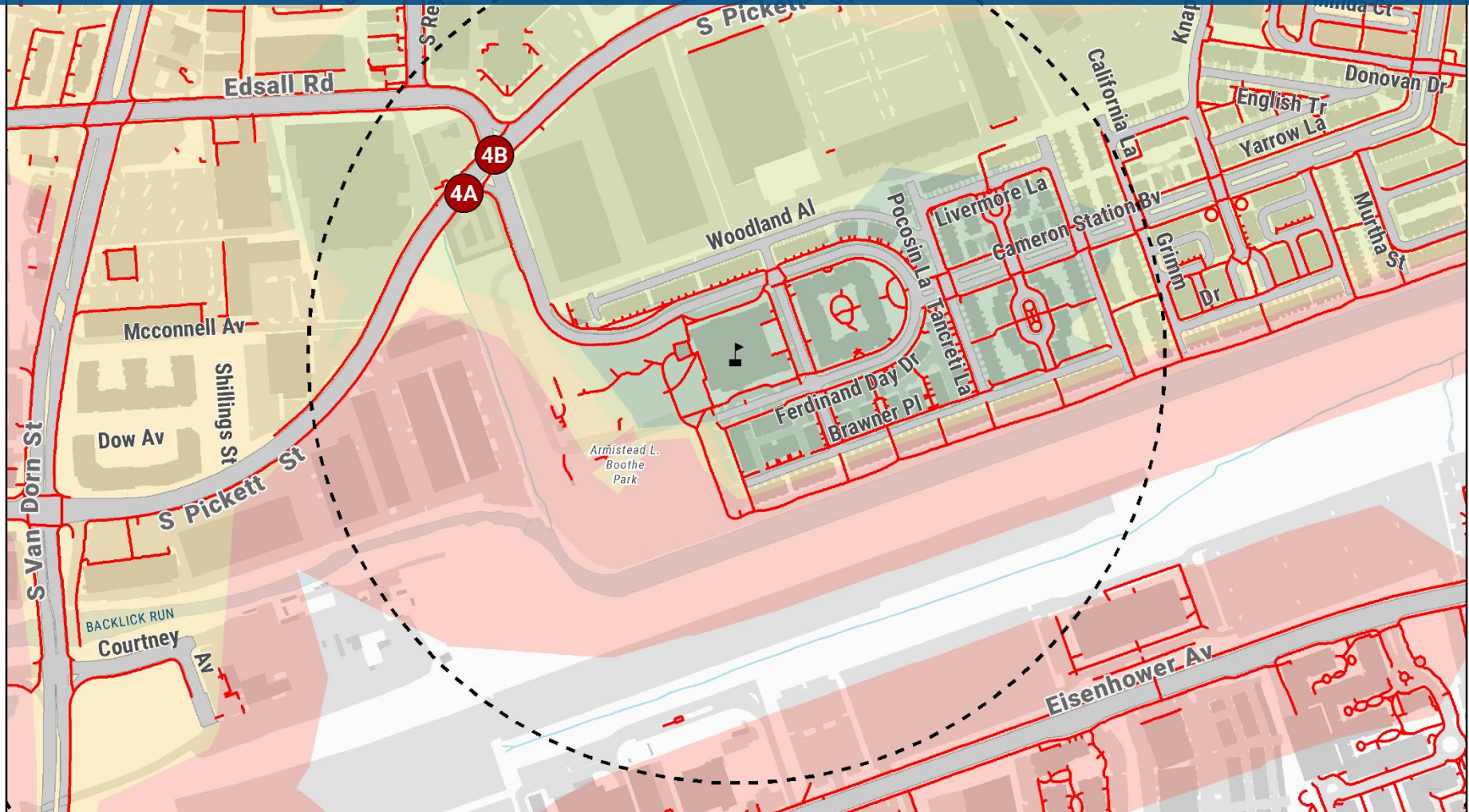
Map ID	Issue	Recommendation	Timeframe*
3A	Speed limit along Ferdinand Day Dr. is 25 mph while speed limit along Cameron Station Blvd. is 15 mph with flashing school zone beacon.	Reduce speed limit to 15 mph and add flashing school zone beacon to Ferdinand Day Dr.	Short

* Short = within 1 year, Medium = within 3 years, Long = 3 or more years



SIGNALIZED INTERSECTIONS

Additional Detail on
Following Slide



Infrastructure Recommendations

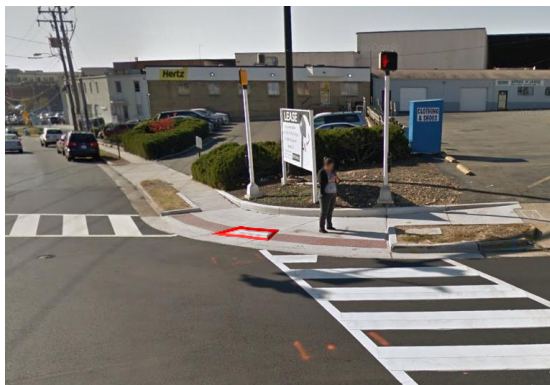
Samuel Tucker Elementary School
Alexandria, Virginia



SIGNALIZED INTERSECTIONS

Map ID	Issue	Recommendation	Timeframe*
4A	“Right Turn Watch for Pedestrians” signage obscured by other signage	Reconfigure signage so each sign is clearly visible.	Short
4B	Curb ramp at NW corner not ADA-compliant due to lack of gap in detectable warning surface	Add separating island between crosswalks to break up detectable warning surface	Short
	Insufficient pedestrian crossing time	Provide Leading Pedestrian Interval and extended walk phase when push button activated. Alternatively, provide pedestrian-only phase during arrival and dismissal to allow students to safely cross.	Medium
	Presence of slip lanes	Provide raised crosswalk across slip lane. NOTE: Limited ROW prevents the elimination of slip lanes.	Long

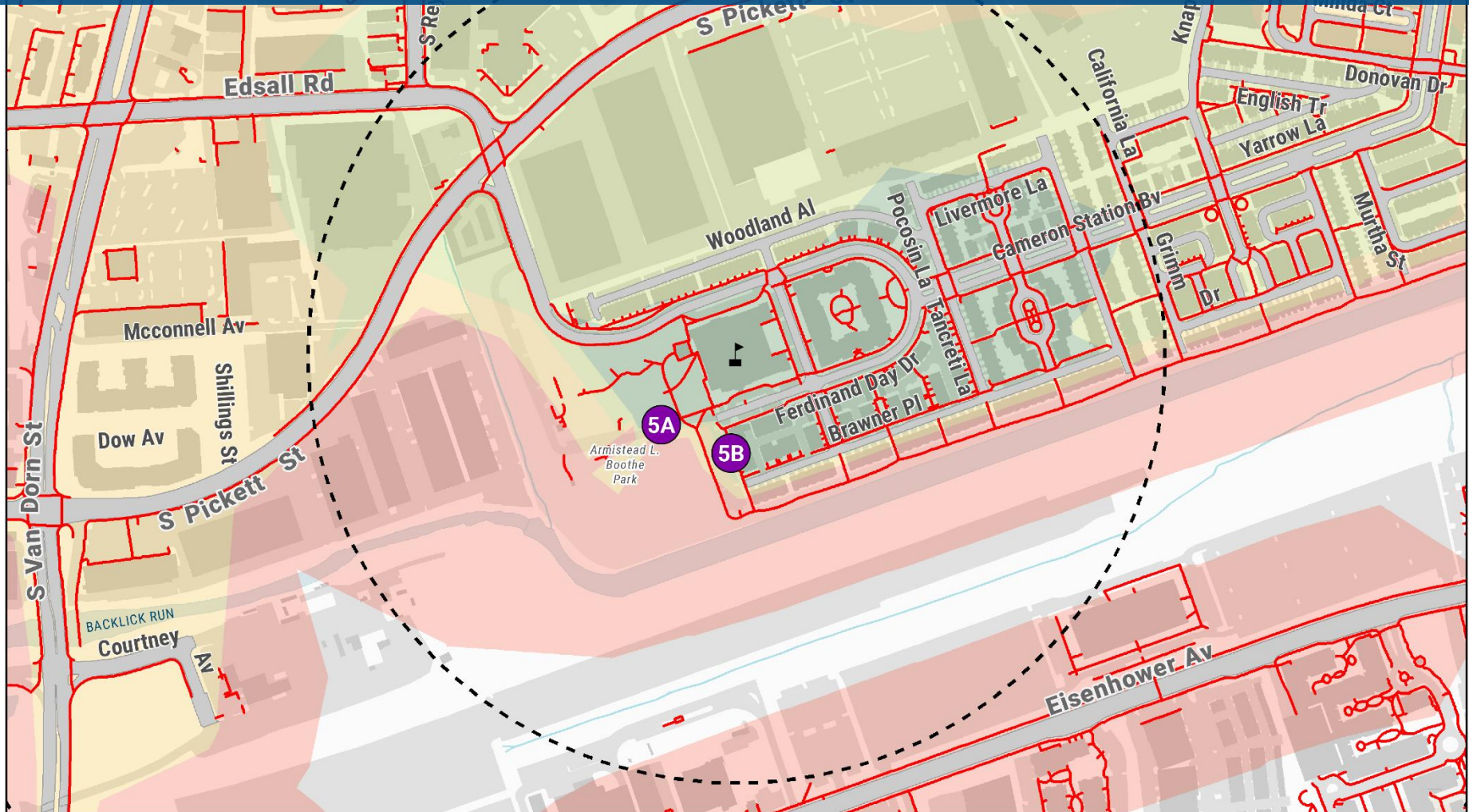
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Left: A gap in the detectable warning surface should be added in order to indicate which direction crosswalks are in.

OTHER RECOMMENDATIONS

Additional Detail on
Following Slide



Infrastructure Recommendations

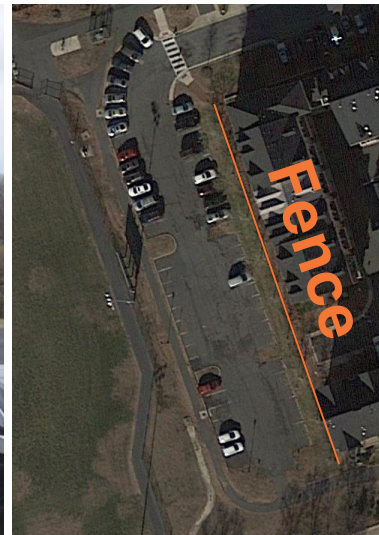
Samuel Tucker Elementary School
Alexandria, Virginia



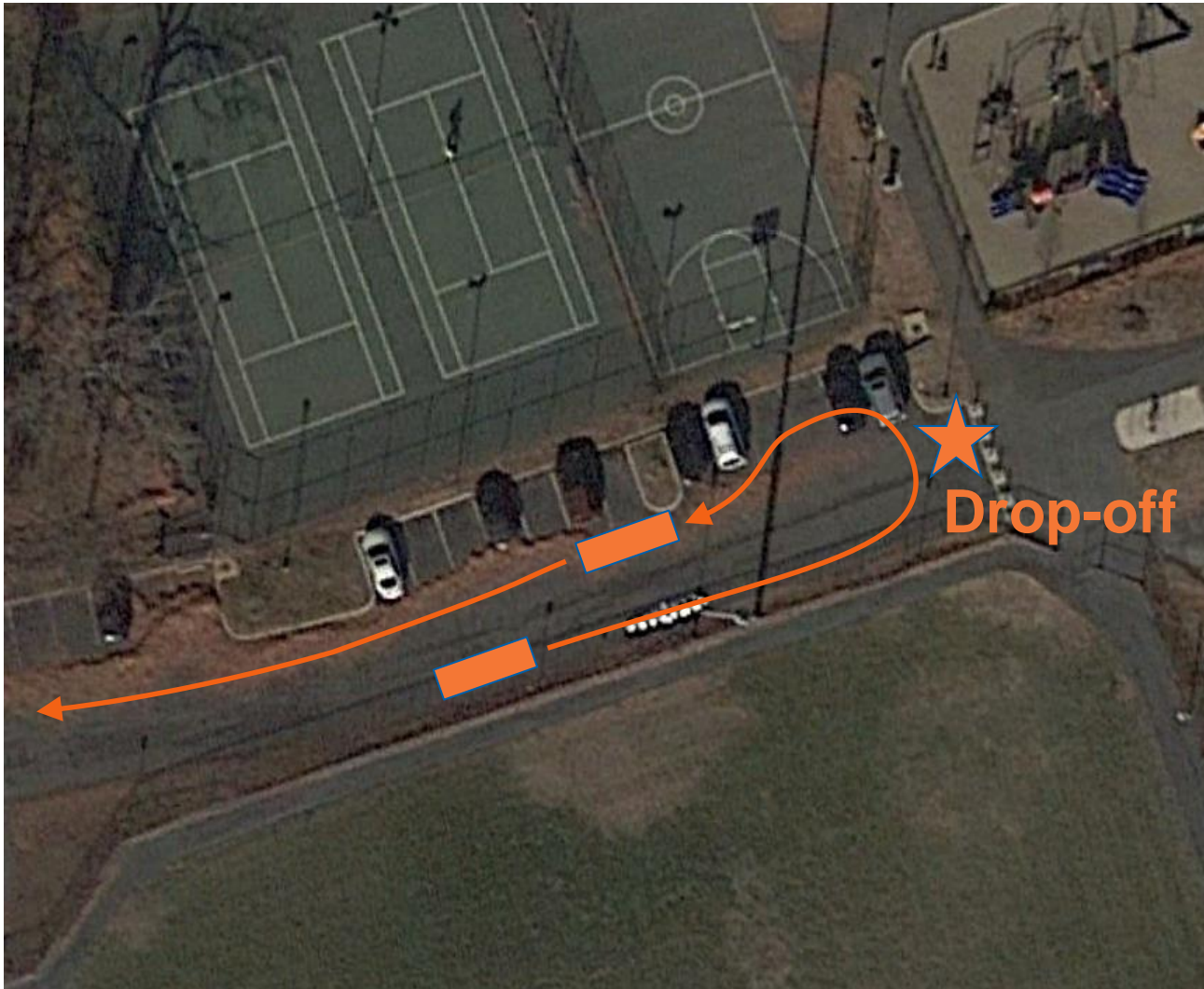
OTHER RECOMMENDATIONS

Map ID	Issue	Recommendation	Timeframe*
5A	Parents and teachers use the parking lot in Armistead Booth Park to access the school. The narrow width of the parking lot leads to conflicts between pedestrians and cars as cars must make a three-point turn to exit and there is no dedicated pedestrian space.	Add sidewalks between tennis courts and parking lot so that parents, students, and teachers do not need to walk within the roadway to access school. Consider eliminating parking spaces at the end of the roadway so vehicles have ample space to turn around similar to a cul-de-sac.	Medium
5B	Existence of a fence between the parking lot and sidewalk forces pedestrians to walk within the street.	Create gaps in the fencing to allow pedestrians to access sidewalk.	Short

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Reconfigured Drop-Off



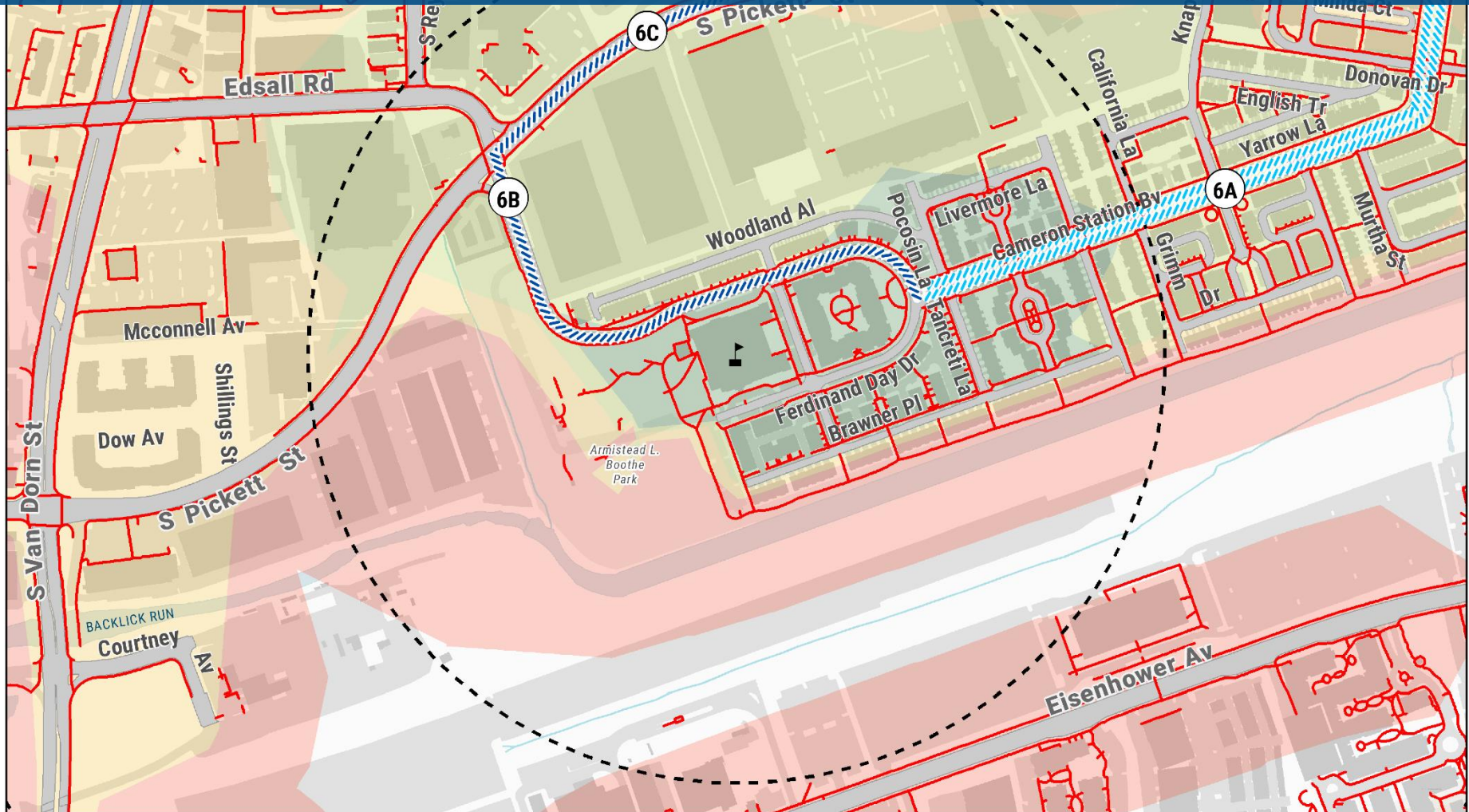
OTHER RECOMMENDATIONS



The Armistead Boothe Park parking lot is a frequent location for student drop-offs/pick-ups. The narrow width of the parking lot forces vehicles to back up to exit. The addition of a sidewalk would provide a safe place for students and parents to walk to school.

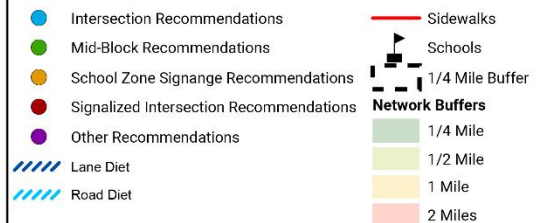
ROADWAY IMPROVEMENTS

Additional Detail on
Following Slide



Infrastructure Recommendations

Samuel Tucker Elementary School
Alexandria, Virginia



ROADWAY IMPROVEMENTS

Map ID	Issue	Recommendation	Timeframe*
6A	Lack of bicycle infrastructure along Cameron Station Blvd.	Install bicycle infrastructure in accordance with the Bicycle and Pedestrian Master Plan.	Medium
6B	Lanes along Cameron Station Blvd. are as wide as 24' west of Ferdinand Day Dr. leading to higher vehicular speeds.	Narrow vehicular lanes to slow traffic and add a painted center median, shoulder, or bike lanes.	Medium
6C	The speed limit along S Pickett St. is 25 mph west of Edsall Rd. and 35 mph east of Edsall Rd.	Reduce posted speed limit east of Edsall Rd. to 25 mph and install lane diet to reduce vehicular speeds.	Medium

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PROGRAMMATIC RECOMMENDATIONS

EDUCATION

Recommendation	Continue Existing	Start New
Integrate pedestrian and bicycle safety education into the school curriculum.		●
Conduct a bicycle rodeo to teach the skills and precautions to ride a bike safely.		●
Incorporate information about walking and bicycling to school in communications with parents.	●	
Provide parents and guardians with safe driving information that stresses the importance of driving safely in school zones and being alert for pedestrians and bicyclists during arrival and dismissal.	●	



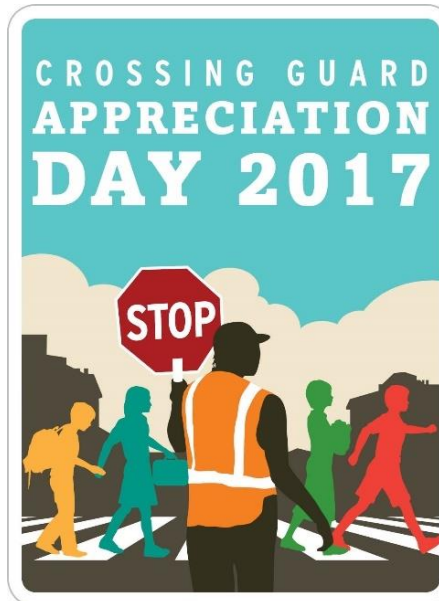
ENCOURAGEMENT

Recommendation	Continue Existing	Start New
Participate in International Walk to School Day and Bike to School Day.		•
Help organize and support walking schools buses.	•	
Help organize and support bike trains.		•
Establish a frequent walker / bicyclist program.		•



ENFORCEMENT

Recommendation	Continue Existing	Start New
Establish a driver pledge program.		●
Celebrate Virginia Crossing Guard Appreciation Day.		●
Work with the police department to provide periodic parking and traffic enforcement near the school.	●	



EVALUATION

Recommendation	Continue Existing*	Start New
Conduct Student Travel Tallies to get baseline data for student travel patterns.	●	
Administer Parent Surveys to collect information on parents' attitudes towards walking and bicycling and reasons why they may or may not allow their children to walk or bike to school.	●	

**Travel Tallies were last collected in the fall of 2016 and Parent Surveys were conducted in the fall of 2016 at Samuel Tucker Elementary School. Up to date information is required to monitor program success and apply for federal SRTS funding.*

